



PUBLIC NOTICE

File Number: NRS 14.277

Pursuant to Chapter 0400-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit and §401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

APPLICANT: Ronnie Bowers, EPM3
Tennessee Department of Environment and Conservation
Nashville Environmental Field Office
711 R.S. Gass Blvd
Nashville, TN 37243
615-533-3802

LOCATION: 1851 N. Houston Levee Road, Unnamed tributary to Grey's Creek, Shelby County, Cordova, TN (Lat: 35.174074/Lon: -89.733463)

PROJECT DESCRIPTION: The applicant proposes to halt a rapidly eroding head cut and create grade control hard points to prevent future stream degradation.

Impact 1: Latitude: 35.174074 Longitude: -89.733463
Unnamed tributary to Grey's Creek ([TN08010210022_0100](#))

The applicant proposes to halt a rapidly eroding head cut and create grade control hard points to prevent future stream degradation. The applicant will install sheet pile across the entire width of the channel driven to a depth of 20 ft. below current grade. Once installed, material previously stockpiled by the church will be used to fill the space directly downstream to prevent cutting or "waterfall" effect until the channel naturally accumulates bed load to provide the final slope of the channel. Vertical banks would be graded back to the extent possible to create in channel flood plain benches and allow for rapid vegetation growth. Exposed earthen surfaces will be vegetated from the local black willow seed source.

DEGRADATION: In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will not result in degradation to water quality.

WATERSHED / WATERBODY DESCRIPTION: Grey's Creek flows into the Wolf River Watershed. The Tennessee portion of the Wolf River Watershed (68.5% of the entire watershed) includes parts of Fayette, Hardeman, and Shelby Counties. It drains approximately 819 square

miles, 561 square miles of which are in Tennessee, and empties to the Mississippi River Watershed. For more information on this watershed please visit:

<http://www.state.tn.us/environment/water/watersheds/lower-tennessee-river.shtml>

Unnamed tributary to Grey's Creek ([TN08010210022_0100](#)) is in the Loess Plains (74b) ecoregion. The channel dimensions are as follows: channel bottom width 8-15', channel top width 30-45, water depth 0", and bank height 15'-20'. Typical substrate in this section is comprised of silt/sand.

Stream Name / ID #: Unnamed tributary to Grey's Creek ([TN08010210022_0100](#))

Ecoregion: Loess Plains (74b)

Stream Dimension:

| | |
|----------------------|--------|
| Channel bottom width | 8-15' |
| Channel top width | 30-45' |
| Water depth | 0" |
| Bank height | 15-20' |

Substrate: Silt/sand

Designated Use

Fish and aquatic life

Recreation

Industrial water supply

Irrigation

Livestock watering & wildlife

Use Support

not supporting

not supporting

fully supporting

fully supporting

fully supporting

Causes

Sediment/Siltation/Alteration

E. coli

Assessment Date: 2012

PERMIT COORDINATOR: Brian Canada

FACTORS CONSIDERED: In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

COMMENTING: Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **twenty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

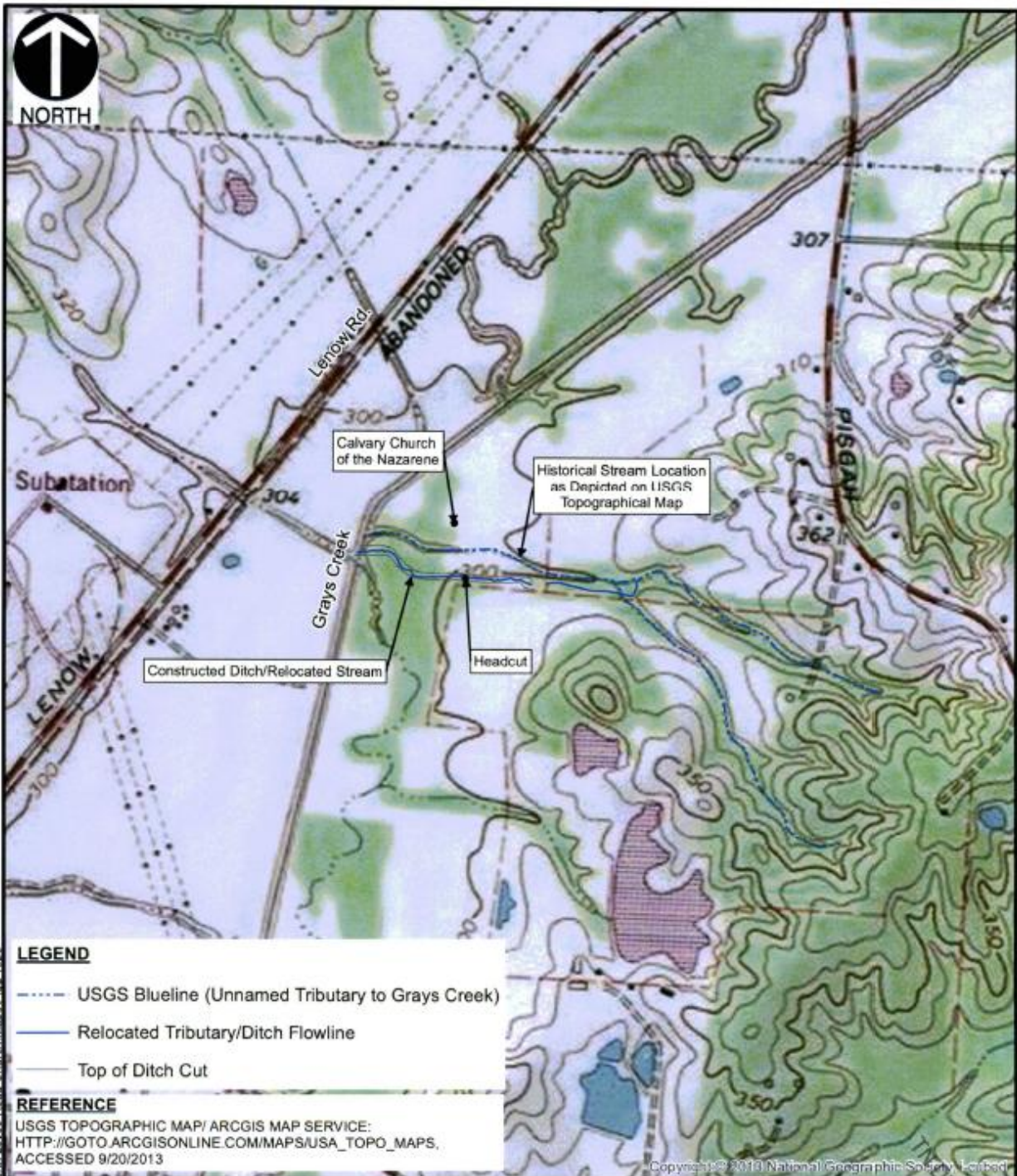
PUBLIC HEARING: Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the

department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

APPEAL: A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Dr. Sandra Dudley, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 12th floor, Nashville, TN 37243. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

FILE REVIEW: The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation
Division of Water Resources, Natural Resources Unit
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243



I:\Src\NASHIP\2012\122-620-G\North Levee Road Church\Map\Fig 2 Topo

Civil & Environmental Consultants, Inc.
 405 Duke Drive, Ste. 270 Franklin, Tennessee
 615-333-7797 • 800-763-2326
www.cecinc.com

POTENTIAL PROJECT REVIEW
 CALVARY CHURCH OF THE NAZARENE
 HOUSTON LEVEE RD.
 SHELBY COUNTY, TENNESSEE

USGS TOPOGRAPHICAL MAP

| | | | | | | | |
|-----------|-----------|-------------|-------------|--------------|---------|------------|---|
| DRAWN BY: | CEC | CHECKED BY: | JTD | APPROVED BY: | JTD | FIGURE NO: | 2 |
| DATE: | 9-19-2013 | SCALE: | 1" = 1,000' | PROJECT NO: | 130-911 | | |

THE CITY OF ENVIRONMENTAL CONSERVATION
 09/01/2014
 WATER RESOURCES





Photo 1 – View immediately downstream of head-cut (9/11/13).



Photo 2 – View of concrete debris uses as bank stabilization (9/11/13).



Photo 7 – Upstream view approx. 500 ft. downstream from head-cut (9/11/13).



Photo 8 – Downstream view approx. 500 ft. downstream from head-cut (9/11/13).



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Photo 9 – Active headcut, view is downstream (3/14/14).



Photo 10 – View looking upstream at headcut with stable channel in background (3/14/14).



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Photo 13 – Confluence with Gray's Creek. Note eroded banks and downcutting in Gray's Creek. Tributary channel at confluence is at the current level of Gray's Creek (3/14/14).